

# City of Nashua Wastewater Fund Rate/Revenue Requirements Analysis April 2013

## Wastewater Fund: Rate/Revenue Requirements Analysis

## Page 3 - Schedule A - Analysis of Operations

Schedule A is the Analysis of Operations for the Wastewater Fund for the period FY2013 through FY2019. Included in the analysis is:

- 1) Percentage increases projected in Retail User Fees.
- 2) Projected Revenues and Expenditures from operational activities resulting in the calculation of Net Surplus from Operations for each year.
- 3) Projected Capital Project Costs offset by Grants and Contributions, Funding from the Capital Equipment Reserve and Debt proceeds resulting in Net Surplus or Deficit from Capital Projects Funding for each year.
- 4) Projected Total Unrestricted Net Assets in the Fund Unrestricted Retained Earnings and Capital Equipment Reserve.
- 5) Recommended Unrestricted Net Assets Target this calculation includes 2 months of operating expenses and one-half of the annual debt service using a three year average.

## Page 4 – Schedule B - Analysis of Capital Projects – Capital Expenditures

Schedule B is the Analysis of Capital Projects for the Wastewater Fund. Included in the analysis is:

- 1) A listing of the various Consent Decree Control Plan Projects, Collections System and Other Wastewater Projects, and Hazard and Stormwater Control Projects.
- 2) For each project, the schedule shows the total project amount, the amount of the project financed by cash, the amount of the project financed by debt and the estimated spending plan for the years FY2013 to FY2019.

# Page 5 - Schedule C - Analysis of Capital Projects - Capital Funding Sources

Schedule C is the Analysis of Capital Funding Sources for the Wastewater Fund. Included in the analysis is:

- 1) A listing of Grants and Contributions and the amounts anticipated to be received for the years FY2013 to FY2019.
- 2) Use of funds from the Capital Equipment Reserve for each year.

3) A listing of the Projects funded by debt along with the anticipated debt proceeds for each year.

# Page 6 - Schedule D - Capital Replacement Schedule

This table lists all plant and mobile equipment and includes year acquired, original cost, life, year of replacement, future value (projected value at year of replacement), and amount to reserve each year in order to reach that future value (with inflation and investment earnings factored in). This equipment is categorized by plant and collections.

# Page 16 - Schedule E - New Project Debt

This table shows the debt schedules for each of the projects being debt financed.

## Page 19 - Schedule F - Old Project Debt

This table shows the old debt service payments required for each year.

#### City of Nashua Analysis of Operations FY2013 through FY2019

Schedule A

Line No.	<u>Description</u>		FY 2013		FY 2014		FY 2015		FY 2016		FY 2017		FY 2018		FY 2019
1	Projected Percent Increase in Retail User Fees		0.00%		15.00%		10.00%		10.00%		10.00%		5.00%		5,00%
2															
3 4	Retail User Fee Revenue	s	9,391,585	c	10,800,323	e	11,880,355	c	13,068,391	•	14,375,230	2	15,093,991	8	15,848,691
5	Wholesale Revenue	3	557,652	Þ	570,214		583,112	4	596,354	4	609,952		623,914	•	638,940
6	Subtotal - User Fee Revenues	S	9,949,237	S	11,370,537	\$	12,463,467	\$	13,664,745	\$	14,985,181	\$	15,717,905	\$	16,487,631
7	Other Revenue	-	654,415	-	571,958	-	564,371		561,141		556,897		555,221		559,006
8	Total Revenues	s	10,603,652	\$	11,942,496	\$	13,027,838	\$	14,225,886	\$	15,542,078	\$	16,273,126	S	17,046,638
9															
10	Expenditures														
11	Operating Expenditures														
12	Personnel Related Expenditures	\$	3,324,158	\$	3,423,883	\$	3,526,599	\$	3,632,397	\$	3,741,369	\$	3,853,610	\$	3,969,218
13	Plant Operations and Maintenance		2,894,656		2,991,446		3,091,637		3,195,356		3,302,736		3,413,912		3,529,029
14	Administration Costs (Non Personnel)		284,438		292,971	_	301,760	_	310,813	_	320,137		329,741	_	339,634
15	Subtotal - Operating Expenditures	\$	6,503,252	<u>s</u>	6,708,300	<u>\$</u>	6,919,996	<u>\$</u>	7,138,566	\$	7,364,242	<u>s</u>	7,597,264	<u>\$</u>	7,837,881
16															
17	Non-Operating Expenditures														
18	Capital Outlay	\$	1,790,288	\$	1,797,614	\$	1,805,234	\$	1,813,158	\$	1,821,399	\$	1,829,970	\$	1,838,884
19	Debt Service Payments	_	2,307,389	_	3,456,068	_	3,381,962	_	5,012,877		4,906,733		4,800,589	_	4,694,446
20	Subtotal - Non-Operating Expenditures	\$	4,097,677	\$	5,253,683	3	5,187,196	\$	6,826,035	3	6,728,132	\$	6,630,559	3	6,533,329
21			40 400 000		44.044.000	_	40.407.403	•	13.064.601	•	14 002 274	•	1 4 227 022		14,371,210
22	Total Expenditures	2	10,600,929	<u>s</u>	11,961,982	<u>\$</u>	12,107,192	\$	13,964,601	<u>\$</u>	14,092,374	3	14,227,822	3	14,371,210
23			0.500		40.407		020 (46	•	261.298	e	1,449,704	s	2,045,304		2,675,427
24	Net Surplus From Operations	2	2,723	-2	19,487	3	920,646	3	261,285	<u>\$</u>	1,449,704	3	2,045,304	3	2,0/5,42/
25															
26	Captial Projects Funding	s	14,018,711		12,543,145	•	13,458,643	•	-	e e	_	s	_	\$	_
27 28	Debt Proceeds (Schedule C) Grants and Contributions (Schedule C)	3	277,443	3	528,664	J	450,631	Φ	132,540	J	127,533	•	122,526	•	122,526
29	Funding from Capital Equipment Reserve (Schedule C)		2,278,000		1,628,000		2,558,000		556,000		1,132,000		532,000		853,000
30	Less. Capital Project Costs (Schedule B)		(16,324,976)		(16,307,124)		(17,214,566)		(2,982,646)		(3,653,723)		(3,153,365)		(3,578,797)
31	Net Surplus (Deficit) From Captial Projects	\$	249,178	\$	(1,607,315)	\$	(747,292)	\$	(2,294,106)	\$	(2,394,190)	\$	(2,498,839)	\$	(2,603,271)
32															
33															
34	Unrestricted Retained Earnings							_		_		_	(5.005.545)		(0.240.200)
35	Beginning Balance	\$	(4,709,990)	\$	(4,458,089)	\$	(6,084,891)	\$	( <b>5,911,537</b> ) 261,285	3	(7 <b>,944,357</b> ) 1,449,704	2	( <b>8,888,842</b> ) 2,045,304	3	(9 <b>,342,378</b> ) 2,675,427
36 37	Net Surplus (Deficit) From Operations (Line 24 above) Net Surplus (Deficit) From Capital Projects (Line 31 above)		2,723 249,178		(19,487) (1,607,315)		920,646 (747,292)		(2,294,106)		(2,394,190)		(2,498,839)		(2,603,271)
38		•	(4,458,089)	<u>s</u>	(6,084,891)	•	(5,911,537)	•		<u> </u>	(8,888,842)	<u>s</u>	(9,342,378)	\$	(9,270,222)
	Ending Balance	-	(4,450,007)	-	(0,004,051)	9	(5,511,557)		(7,571,001)		(0,000,012)		(5,42,12,13)	_	(
39 40	Capital Equipment Reserve														
41	Beginning Balance	S	9,754,881	S	9,045,794	S	9,024,923	S	8,074,052	S	9,125,181	\$	9,600,310	\$	10,675,439
42	Capital Equipment Additions Funded by Sewer Rates (Schedule D)	•	1,568,913	•	1,607,129	-	1,607,129	•	1,607,129		1,607,129		1,607,129		1,607,129
43	Payments for Capital Equipment Expenditures (Schedule D)		(2,278,000)		(1,628,000)		(2,558,000)	_	(556,000)	_	(1,132,000)		(532,000)		(853,000)
44	Ending Balance	\$	9,045,794	\$	9,024,923	\$	8,074,052	\$	9,125,181	\$	9,600,310	\$	10,675,439	<u>\$</u>	11,429,568
45															
46	Total Unrestricted Net Assets	\$	4,587,706	\$	2,940,033	<u>s</u>	2,162,516	<u>s</u>	1,180,824	<u>s</u>	711,468	\$	1,333,061	\$	2,159,346
47						_									
48	Recommended Unrestricted Net Assets Target														
49	Working Capital (Based on 2 Months of Operating Expenses)	\$	1,083,875	\$	1,118,050	\$	1,153,333	\$	1,189,761	\$	1,227,374		1,266,211		1,306,313
50	Bonded Debt (1/2 year of Debt Service from 3yr avg)	\$	1,524,237	\$	1,975,151	\$	2,216,929	\$	2,453,366	\$	2,400,295	\$	2,340,175	<u>\$</u>	2,203,177
51	Recommended Reserve Target	\$	2,608,112	\$	3,093,201	<u>s</u>	3,370,261	<u>s</u>	3,643,127	\$	3,627,668	\$	3,606,385	\$	3,509,490

City of Nashua Analysis of Capital Projects FY2013 through FY2019

Schedule B

Line No.	Description	Total Project <u>Amount</u>	Cash		Debt	Year of 1st Payment	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 201	
1 2	Capital Expenditures													
3	Consent Decree Control Plan Projects													
4	Major Mitigation Projects									. 150			e	
5	Wet Weather Flow Treatment Facility	\$ 32,374,79			14,700,000	2010	\$ -	3 -	\$ -	\$ -	s -	\$ -	3	
6	Disinfection Facility	19,782,76			19,625,000	2017	•	7,880,000	11,820,643	98				
7	Sluice Gate	874,84			5,000,000	2011	1,928,998	•	229	-				ā
8	Harbor Avenue	5,425,13			5,000,000	2014	1,928,998	-	123					
10	Drop Over Structures System Optimization	1,524,43 1,810,72			-			_						
11	Storage Tank	6,000,4			5,764,964	2014	325,000	4,549,772	500,000	-		-		
	-	\$ 67,793,1			45,089,964	2014		S 12,429,772	\$ 12,320,643	<u> </u>	<u> </u>	<u> </u>	s	_
12	Total Major Mitigation Projects	3 67,793,13	3 22,703,10	3	43,007,704		3 2,233,770	3 12,427,772	3 12,320,043		-		-	
13														
14	Other Consent Decree Projects						6 111.240	<b>\$</b> 114,577	£ 119.016	<b>\$</b> 121,555	\$ 125,202	\$ 128,958	e 13	2,826
15	Consent Decree Operational Projects	\$ 1,172,30	, ,		-		\$ 111,240 500,000	\$ 114,577	\$ 118,015	\$ 121,333	\$ 123,202	3 120,730	<b>3</b> 13.	2,020
16	Inflow and Infiltration	500,00								- 121 555	\$ 125,202	\$ 128,958	c 12	2,826
17	Total Other Consent Decree Projects	\$ 1,672,30	06 \$ 1,672,30	9 2			\$ 611,240	s 114,577	<u>\$ 118,015</u>	<u>\$ 121,555</u>	3 125,202	\$ 128,958	\$ 13	2,820
18														
19	Total Consent Decree Control Plan Projects	s 69,465,4	56 \$ 24,375,49	2 \$	45,089,964									
20														
21	Collection System and Other WWTF Projects													
22	Infrastructure Improvements (Sewer Rehab)	\$ 12,995,63	31 \$ 12,995,63	1 \$	-		\$ 1,260,000	\$ 1,323,000	\$ 1,389,150	\$ 1,458,608	\$ 1,531,538	\$ 1,608,115	\$ 1,68	8,521
23	Sewer Structures	2,546,1	77 2,546,1	7	-		768,483	231,525	243,101	255,256	268,019	281,420	29:	5,491
24	CSO Flooding	2,730,39	98 2,730,39	8	-		400,000	400,000	400,000	400,000	400,000	400,000	40	0,000
25	Haines Street	1,499,6	58 123,63	3	676,025	2011	-	•		82	-	-		-
26	Manchester Street (CSO Flooding)	100,0			-		59.5	*	( **)	***	27	51		17
27	Net Metering	495,80			248,638	2011	-	-	-		-	•		-
28	Aeration Blowers & Tank Upgrade	3,673,4			4,160,973	2014	3,483,410	-	-	-	•	-		-
29	Dewatering Equipment Replacement Project	5,566,5		0	5,566,516	2016	5,048,245			-				
30	Total Collection and Other WWTF Projects	\$ 29,607,6-	44 \$ 18,005,49	2 5	10,652,152		\$ 10,960,138	<u>\$ 1,954,525</u>	\$ 2,032,251	\$ 2,113,864	\$ 2,199,557	\$ 2,289,535	\$ 2,38	4,012
31														
32	Hazard Mitigation	\$ 50,59		3 \$	•		\$ 46,600		\$ -	\$ .	\$ -	\$ -	\$	-
33	Stormwater Control	1,930,6	68 1,930,66	8	-		175,000	180,250	185,658	191,227	196,964	202,873		8,959
34	Total Hazard Mitigation and Stormwater Control	\$ 1,981,20	61 \$ 1,981,20	<u>s</u>	-		\$ 221,600	\$ 180,250	S 185,658	<u>\$ 191,227</u>	<u>\$ 196,964</u>	<u>\$ 202,873</u>	\$ 20	8,959
35											6 2 621 722	6 3/313/5	£ 2.72	E 707
36	Total Capital Improvement Projects	\$ 101,054,3	61 \$ 44,362,2	5 \$	55,742,116		\$ 14,046,976	3 14,679,124	\$ 14,656,566	\$ 2,426,646	\$ 2,521,723	\$ 2,621,365	\$ 2,72	5,797
37					1 670 000		6 3 370 000	£ 1.630.000	£ 2.550.000	e	£ 1 132 000	\$ 532,000	\$ 85.	3,000
38	Scheduled Equipment Replacements	\$ 11,175,0	00 \$ 9,537,0	HU 5	1,638,000		<u>\$ 2,278,000</u>	\$ 1,628,000	\$ 2,558,000	<u>\$ 556,000</u>	\$ 1,132,000	3 332,000	3 85.	3,000
39 40	Combined Capital Expenditures	\$ 112,229,3	61 \$ 53,899,24	<u>s</u> <u>s</u>	57,380,116		\$ 16,324,976	<u>\$ 16,307,124</u>	\$ 17,214,566	<u>\$ 2,982,646</u>	\$ 3,653,723	\$ 3,153,365	\$ 3,57	8,797

City of Nashua Analysis of Capital Projects FY2013 through FY2019

Schedule C

		Total Project				FY	FY	FY	FY	FY	FY	FY
Line No.	Description	Amount	<u>Cash</u>	<u>Debt</u>		2013	2014	<u>2015</u>	<u>2016</u>	2017	2018	2019
1	Capital Funding Sources											
2												
3	Grants and Contributions	e 2.024.700			s	192	\$	s -	s -	\$ -	s -	\$ -
4	EPA Grant Funds - General	\$ 3,034,300					1920	7 ·			140	+6
5	NH DES Grants for Wet Weather NH DES Grants for N. Facilities					- 2	3323	\$		*		**
6	NH DES Grants for N. Facilities NH DES Grants for Disinfection	•						2		-	3.40	*:
,	NH DES Grants for Distribution  NH DES Grants for System Optimization	*				69	192	9		*	17 (8)	55
8	NH DES Grants for System Optimization NH DES Grants Aeration Blowers	-				12	-	~				-
,	NH DES Grants for Storage Tanks					39						85
10	NH DES Grants Drop Over Structure	-				1.0		*				
11 12	NH DES Grants Sluice Gate							27			870	
13	NH DES Grants Harbor Avenue Sewer					196	1.51					
14	NH DES Grants for I&I	949				1,0	3.55	- 2	15		-	2
15	NH DES Grants for CSO Flooding	_				5.7				-	12	\$
16	NH DES Grants for Primary Clarifiers					27		-		2	-	2
17	NH DES Grants for Secondary Clarifiers	_				1.7			1,7		100	2
18	NH DES Grants for Dewatering					-	-	-	•	-	-	-
19	NH DES Grants for Prior Year Projects	3,408,574				163,953	141,747	137,545	132,540	127,533	122,526	122,526
20	Hudson Capital Contribution	1,489,382				113,490	386,917	313,086				
21	Total Grants and Contributions	s 7,932,256			S	277,443	\$ 528,664	\$ 450,631	\$ 132,540	s 127,533	\$ 122,526	\$ 122,526
	I State Of all to All to Collections											
22	C. St. I.B. Assessment Front of Used											
23 24	Capital Replacement Funds Used  Cash from Capital Replacement Fund for Projects	\$ 826,000			\$	-	s -	\$ -	\$ -	s -	\$ -	\$ -
24	Equipment (see Schedules D and E for	3 020,000										
25	detail)	-			_	2,278,000	1,628,000	2,558,000	556,000	1,132,000	532,000	853,000
26	Total Capital Replacement Funds Used	\$ 826,000			<u>s</u>	2,278,000	\$ 1,628,000	\$ 2,558,000	\$ 556,000	\$ 1,132,000	\$ 532,000	\$ 853,000
	Total Capital Hapman											
27 28	Debt Proceeds (see Schedule F)											
29	Wet Weather Flow Treatment Facility	\$ 32,374,798	\$	14,700,000	\$	-	\$ -	S -	\$	\$ -	s -	s -
30	Disinfection Facility	19,782,762		19,625,000		-	7,880,000	11,820,643	¥3		(+)	*
31	Harbor Avenue Sewer Separation	5,425,134		5,000,000		893,711	2,295,692	-	-	9		
32	Storage Tanks (Bond R-11-167)	6,000,455		5,764,964		5,764,964	-	19	-		7.5	
33	Haines Streets Sewer Separation (SRF & ARRA)	1,499,658		676,025		-	*	59	**	25	(e)	7
34	Net Metering (SRF & ARRA)	495,807		248,638		-	•	-	•	-	-	-
35	Aeration Blowers (Bond R-11-167)	3,673,459		4,160,973		4,160,973	-	-	-	-	-	-
36	Dewatering Project (Bond R-11-167)	5,566,516		5,566,516		3,199,063	2,367,453		-	-	-	
37	Capital Equipment	1,638,000		1,638,000	_	<u> </u>		1,638,000				-
38	Total Debt Proceeds	s 76,456,589	S	57,380,116	<u>s</u>	14,018,711	<u>\$ 12,543,145</u>	\$ 13,458,643	<u>s - </u>	<u>s - </u>	<u>s -</u>	<u>s - </u>
			_									
39 40	Project Costs Funded by Available Cash				S	(249,178)	\$ 1,607,315	\$ 747,292	\$ 2,294,106	\$ 2,394,190	\$ 2,498,839	\$ 2,603,271
40	Fruject Custs Funded by Avanable Cash				_							

		NASHUA W	AL REPLAC ASTEWATE CAL YEAR 2	R FACIL			
Ass	umptions:						
Savings Interest Inflation			ally			Savings Rate:	2.5%
Future Value i	s the Inflation	Factor			Ι	Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate  Equipment or Structure	Equip. ID No:	Year Acquired	Total Installed Cost	Years Before Replace	Replacement Year	Future Replacement Cost	Annual Reserve Payment
PLANT CAPITAL EQUIPMENT FUND							
Roll-Off	ROF	2000	\$10,000	13	2013	15,000	1,000
WAS Thickener # 1	WAT 1	1989	\$95,000	24	2013	193,000	6,000
Anaerobic Digester Grinders (first half - several grinders)	ADG	2000	\$100,000	13	2013	147,000	9,700
Roll-Off	ROF	2000	\$10,000	13	2013	15,000	1,000
Screw Conveyors (bar screen)	SCR 1	2000	\$50,000	13	2013	73,000	4,800
Screenings Washer	SCW I	2000	\$70,000	13	2013	103,000	6,800
Screenings Washer	SCW 2	2000	\$70,000	13	2013	103,000	6,800
Wet Well Odor Control Mechanical	WWOC	1992	\$100,000	21	2013	186,000	6,800
WAS Pumps # 1	WAS 1	1995	\$20,000	18	2013	34,000	1,500
WAS Thickener # 2	WAT 2	1989	\$95,000	24	2013	193,000	6,000
Underground Storage Tanks (1)	UST 1	2002	\$80,000	11	2013	111,000	8,900
Plant Air Compressor		1975	\$25,000	38	2013	77,000	1,200
Control Bldg 3 Ton Rail Crane		1975	\$25,000	38	2013	77,000	1,200
Hypochlorite Pump #1		1989	\$17,000	24	2013	35,000	1,100
Hypochlorite Pump #2		1989	\$17,000	24	2013	35,000	1,100
RAS Drive - Pump #1		1989	\$30,000	24	2013	61,000	1,900
WAS Polymer Pump (4 EA)		1989	\$12,000	24	2013	24,000	700

		1000 E					
			AL REPLACI				
		T	ASTEWATEI CAL YEAR 2		ITY		
		110		010			
Assu	mptions:						
Savings Interest Inflation	Rates Comp	ounded Annu	ally		_	Savings Rate:	2.5%
Future Value is	the Inflation	Factor		_		Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate							
WAS Thickener # 3	WAT 3	1989	\$95,000	24	2013	193,000	6,000
Anaerobic Digester Grinders (second half - several grinders)	ADG	2000	\$100,000	13	2013	147,000	9,700
Primary Tanks Chain & flights # 5	PSD 5	2006	\$25,000	7	2013	31,000	4,100
Hypochlorite Pump #3		1989	\$17,000	24	2013	35,000	1,100
Hypochlorite Pump #4		1989	\$17,000	24	2013	35,000	1,100
RAS Drive - Pump #2		1989	\$30,000	24	2013	61,000	1,900
Blower Building Roof	BBR 1	1989	\$20,000	25	2014	42,000	1,200
Grit Chamber Roof	GCR	1989	\$15,000	25	2014	31,000	908
Raw Sewage Pump # 3+ Controls	RSP 3	1975	\$140,000	39	2014	443,000	6,800
Above ground diesel storage tanks (3)		1999	\$18,000	15	2014	28,000	1,600
Primary Tanks Chain & flights # 1	PSD 1	2007	\$25,000	7	2014	31,000	4,100
Primary Tanks Chain & flights # 2	PSD 2	2007	\$25,000	7	2014	31,000	4,100
Primary Tanks Chain & flights # 3	PSD 3	2007	\$25,000	7	2014	31,000	4,100
Primary Tanks Chain & flights # 4	PSD 4	2007	\$25,000	7	2014	31,000	4,100
RAS Drive - Pump #3		1989	\$30,000	25	2014	63,000	1,800
WAS Polymer Pump (3 EA)		1989	\$10,000	25	2014	21,000	600
Central Generator	CG1	1990	\$200,000	25	2015	419,000	12,300
Roof Adminstration Bldg	ADM 1	1995	\$45,000	20	2015	81,000	3,200
Aeration Tanks Grid System	ATC 1	1995	\$325,000	20	2015	587,000	23,000
Aeration Tanks Diffusers	ATD 1	2005	\$105,000	10	2015	141,000	12,600
Control Building Instrumental	CBI I	2000	\$70,000	15	2015	109,000	6,100
Hypochlorite Chambers Mixers # 2	HCM 2	2008	\$12,000	7	2015	15,000	2,000
Primary Sludge Transfer Pumps	PST 1	1985	\$25,000	30	2015	61,000	1,400

	-		AL REPLACE				
			ASTEWATEF CAL YEAR 2		ITY		
		110					
Asse	ımptions:						
Savings Interest Inflation			ally			Savings Rate:	2.5%
Future Value is	s the Inflation	Factor	· · ·			Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate							
Primary Sludge Transfer Pumps	PST 2	1985	\$25,000	30	2015	61,000	1,400
Primary Sludge Transfer Pumps	PST 3	1985	\$25,000	30	2015	61,000	1,400
RAS Pumps # 1	RAS 1	1988	\$80,000	27	2015	178,000	4,700
RAS Pumps # 2	RAS 2	1988	\$80,000	27	2015	178,000	4,700
RAS Pumps # 3	RAS 3	1988	\$80,000	27	2015	178,000	4,700
RAS Pumps # 4	RAS 4	1988	\$80,000	27	2015	178,000	4,700
Sludge Pumping Building Roof	SPR 1	1995	\$20,000	20	2015	36,000	1,400
WAS Pumps # 2	WAS 2	1995	\$20,000	20	2015	36,000	1,400
Water Meter Booster Station	WMB 1	1995	\$75,000	20	2015	135,000	5,300
Office AC Units - Rooftop	ACU 1	2000	\$35,000	15	2015	55,000	3,100
Anaerobic Digester Sludge Pumps	ADSP	2000	\$25,000	15	2015	39,000	2,200
Bar Screen - #1	MBS 1	2000	\$300,000	15	2015	467,000	26,000
Bar Screen - # 2	MBS 2	2000	\$300,000	15	2015	467,000	26,000
RAS Drive - Pump #4		1989	\$30,000	26	2015	65,000	1,800
Raw Sewage Pump # 4 + Controls	RSP 4	1975	\$140,000	41	2016	470,000	6,700
Boat	BOA	2001	\$5,500	15	2016	9,000	500
South Generator	SG1	1990	\$210,000	27	2017	466,000	12,300
Dechlor Building Roof	DBR 1	1991	\$15,000	26	2017	32,000	900
Hypochlorite Chambers Mixers # 1	НСМ 1	2010	\$12,000	7	2017	15,000	2,000
Anerobic Digester Sludge Pumps	ADSP	2000	\$25,000	17	2017	41,000	2,000
Hypochlorite Storage Tank # 1	HCT 1	2007	\$75,000	10	2017	101,000	9,000
Primary Tank Odor Control Mechinical	PRI OD	2007	\$200,000	10	2017	269,000	24,000
Anaerobic Digester Vessel and Gas Holding Tank Evaluation	r ADV	2000	\$50,000	18	2018	85,000	3,800

	Schedule	D - CAPIT	AL REPLACI	EMENT S	SCHEDULE		
		NASHUA W					
		FIS	CAL YEAR 2	013			
Assi	ımptions:			_			
Savings Interest Inflation	-	ounded Annu	ally			Savings Rate:	2.5%
Savings interest inhation Future Value is			ally			Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate							
Influent Magmeter	IMM 1	2003	\$40,000	15	2018	62,000	3,500
Hypochlorite Storage Tank # 2	HCT 2	2008	\$75,000	10	2018	101,000	9,000
Dechlor Chemical Feed Pumps # 1	DCF I	2008	\$17,000	10	2018	23,000	2,100
Dechlor Chemical Feed Pumps # 2	DCF 2	2008	\$17,000	10	2018	23,000	2,100
Dechlor Chemical Feed Pumps # 3	DCF 3	2008	\$17,000	10	2018	23,000	2,100
Roll-Off	ROF	2008	\$15,000	10	2018	20,000	1,800
Wet Weather Odor Control (Carbon Filter)	wwoc	2008	\$100,000	10	2018	134,000	12,000
Wet Weather Flow Meter	WWFM	2008	\$50,000	11	2019	69,000	5,500
Actiflo Mixers (4 EA)	AM	2009	\$50,000	10	2019	67,000	6,000
Actiflo Sand Pump (6 EA)	ASaP	2009	\$50,000	10	2019	67,000	6,000
Actiflo Sludge Pump (2 EA)	ASIP	2009	\$55,000	10	2019	74,000	6,600
Pump Bldg 3 Ton Rail Crane		1989	\$25,000	30	2019	61,000	1,400
RAS Piping from Pump #1, #2, #3, #4		1989	\$25,000	30	2019	61,000	1,400
WAS Piping from Pump #1, #2		1989	\$25,000	30	2019	61,000	1,400
WAS Piping from Thickener Pump #1		1989	\$10,000	30	2019	24,000	500
WAS Piping from Thickener Pump #2		1989	\$10,000	30	2019	24,000	500
WAS Piping from Thickener Pump #3		1989	\$10,000	30	2019	24,000	500
Wet Well(s) - Refurbish concrete		1989	\$40,000	30	2019	97,000	2,200
Dry Well(s) - Refurbish concrete		1989	\$25,000	30	2019	61,000	1,400
Process Tanks Slide Gate Operator	PSI 1	1995	\$85,000	25	2020	178,000	5,200
Anaerobic Digester Generator (Wakashau Generator)	ADGen	2000	\$450,000	20	2020	813,000	31,800
Anaerobic Digester Iron Sponge	ADIS	2000	\$10,000	20	2020	18,000	700
Anerobic Digester Vessel Upgrade	ADV	2000	\$250,000	20	2020	452,000	17,700

	Schedule	D - CAPIT	AL REPLACI	EMENT	SCHEDULE		
			ASTEWATEI				
			CAL YEAR 2				
							<u></u> .
	ssumptions:						0.50%
Savings Interest Inflati	on Rates Comp		ally			Savings Rate: Inflation Rate:	2.5%
Annual Reserve Payment is Discounted by Savings Rate	-	1 actor				miation Rate.	3.070
Gas Holding Tank Vessel & Equip Upgrade		2000	\$200,000	20	2,020	361,000	14,100
Digester Complex HVAC		2001	\$30,000	20	2021	54,000	2,100
Digester Complex Instrumentation	<u> </u>	2001	\$25,000	20	2021	45,000	1,800
Digester Heat Exchanger (H. E. Sargent, Inc.)		2011	\$54,000	11	2022	75,000	6,000
Boilers	BOII	2002	\$100,000	20	2022	181,000	7,100
Car 3	CAR 3	2011	\$27,000	12	2023	38,000	2,800
Car 155	CAR155	2013	\$35,000	10	2023	47,000	4,200
Wet Weather Pump #1	WWP 1	2008	\$75,000	15	2023	117,000	6,500
Wet Weather Pump #2	WWP 2	2008	\$75,000	15	2023	117,000	6,500
Wet Weather Pump #3	WWP 3	2008	\$75,000	15	2023	117,000	6,500
Wet Weather Pump #4	WWP 4	2008	\$75,000	15	2023	117,000	6,500
Wet Weather Screening Conveyor	WWSC	2008	\$75,000	15	2023	117,000	6,500
Wet Weather Bar Rack #2	WWBR	2009	\$300,000	15	2024	467,000	26,000
Emergency Generator North Facilities	GEN 1	2009	\$275,000	15	2024	428,000	23,900
Primary Clarifier Drive 1	PTD1	2005	\$30,000	20	2025	54,000	2,100
Primary Clarifier Drive 2	PTD2	2005	\$30,000	20	2025	54,000	2,100
Anaerobic Digester Boiler #1	ADB 1	2000	\$100,000	25	2025	209,000	6,100
Anaerobic Digester Boiler #2	ADB 2	2000	\$100,000	25	2025	209,000	6,100
Main Gate Influent Gate Operator	IGO 1	2005	\$100,000	20	2025	181,000	7,100
Primary Tanks Coating #1	PSC 1	2007	\$45,000	20	2027	81,000	3,200
Primary Tanks Coating #2	PSC 2	2007	\$45,000	20	2027	81,000	3,200
Primary Tanks Coating #3	PSC 3	2007	\$45,000	20	2027	81,000	3,200
Primary Tanks Coating #4	PSC 4	2007	\$45,000	20	2027	81,000	3,200

	Schedul	e D - CAPIT	AL REPLACI	EMENT	SCHEDULE		
	Schedul		ASTEWATE				
		FIS	CAL YEAR 2	013			
Acc	umptions:						
	•		alt.			Savings Rate:	2.5%
Savings Interest Inflation Future Value i			any			Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate							
Primary Tanks Coating #5	PSC 5	2007	\$45,000	20	2027	81,000	3,200
Aeration Basin/Secondary Clarifier Structural Rehab		2013	\$500,000	15	2028	779,000	43,442
Aeration Basin/Secondary Clarifier Structural Rehab		2013	\$800,000	15	2028	1,246,000	69,485
Wet Weather Bar Rack #1	WWBR	2008	\$300,000	20	2028	542,000	21,200
Wet Weather PS Roof	WWR	2008	\$20,000	20	2028	36,000	1,400
Plant Water System	PWS 1	2009	\$120,000	20	2029	217,000	8,500
Actiflo Roof	AR	2009	\$20,000	20	2029	36,000	1,400
Actiflo Tanks	AT	2009	\$150,000	20	2029	271,000	10,600
Dry Polymer Feeder #1		2009	\$30,000	20	2,029	54,000	2,100
Polymer Run Tank #1		2009	\$30,000	20	2029	54,000	2,100
Polymer Make up Tank #1		2009	\$30,000	20	2029	54,000	2,100
Dry Polymer Feeder #2		2009	\$30,000	20	2029	54,000	2,100
Polymer Run Tank #2		2009	\$30,000	20	2029	54,000	2,100
Polymer Make up Tank #2		2009	\$30,000	20	2029	54,000	2,100
Sand Feeder		2009	\$104,000	20	2029	188,000	7,400
Actiflo Cyclone #1		2009	\$35,000	20	2029	63,000	2,500
Actiflo Cyclone #2		2009	\$35,000	20	2029	63,000	2,500
Actiflo Cyclone #3		2009	\$35,000	20	2029	63,000	2,500
Actiflo Cyclone #4		2009	\$35,000	20	2029	63,000	2,500
Actiflo Cyclone #5		2009	\$35,000	20	2029	63,000	2,500
Actiflo Cyclone #6		2009	\$35,000	20	2029	63,000	2,500
Actiflo Sludge Thickener Tank		2009	\$520,000	20	2029	939,000	36,800
Actflow Floculation Tank		2009	\$188,000	20	2029	340,000	13,300

	Schedu	le D - CAPIT	AL REPLACE	EMENT :	SCHEDULE		
		NASHUA W	ASTEWATER	R FACIL	ITY		
		FIS	SCAL YEAR 2	013			
Ass	umptions:						
Savings Interest Inflatio	-	nounded Anni	ıally			Savings Rate:	2.5%
Future Value			iany			Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate							
Actiflow Clarifier #1		2009	\$300,000	20	2029	542,000	21,200
Actiflow Clarifier #2		2009	\$300,000	20	2029	542,000	21,200
Actiflow Mixing Tank #1		2009	\$318,000	20	2029	574,000	22,500
Actiflow Mixing Tank #2		2009	\$318,000	20	2029	574,000	22,500
Skid #1 Polymer Pump #1, #2, #3		2009	\$30,000	20	2029	54,000	2,100
Skid #2 Polymer Pump #1, #2, #3		2009	\$30,000	20	2029	54,000	2,100
Skid #3 Polymer Pump #1, #2, #3		2009	\$30,000	20	2029	54,000	2,100
Grease Transfer Pump (Bourgen pump)		2010	\$10,000	20	2030	18,000	700
Net Metering Equipment & Transformer		2011	\$150,000	20	2031	271,000	10,600
Sluice Gate		2011	\$700,000	20	2031	1,264,000	49,500
Primary Tanks Sludge Storage Drive # 1	PSA 1	2012	\$55,000	20	2032	99,000	3,900
Primary Tanks Sludge Storage Drive # 2	PSA 2	2012	\$55,000	20	2032	99,000	3,900
Raw Sewage Pump # 1+ Controls (Alice Chamers pump)	RSP 1	2012	\$90,000	20	2032	163,000	6,400
Hypochlorite Pump #5		2009	\$17,000	23	2032	34,000	1,100
Hypochlorite Pump #6	_	2009	\$17,000	23	2032	34,000	1,100
Blower Bldg Wall Rehab		2013	\$220,000	20	2033	397,000	15,541
Aeration Blower Replacement (3 Units)		2013	\$1,200,000	20	2033	2,167,000	84,832
Instrumentation		2013	\$200,000	20	2033	361,000	14,132
Grit Chamber HVAC	GCHV	2013	\$100,000	20	2033	181,000	7,086
Grit Chamber Grit Classifier # 1	GCC 1	2013	\$100,000	20	2033	181,000	7,086
Grit Chamber Grit Classifier # 2	GCC 2	2013	\$100,000	20	2033	181,000	7,086
Grit Chamber Electrical	GCE	2013	\$140,000	20	2033	253,000	9,904
Grit Chamber Instrumentation	GCI	2013	\$60,000	20	2033	108,000	4,228

	Schedul		AL REPLACE				7-1-1
		T	ASTEWATER CAL YEAR 2		11 Y		
Ass	umptions:						
Savings Interest Inflation			ally			Savings Rate:	2.5%
Future Value i	s the Inflatio	n Factor	— т			Inflation Rate:	3.0%
Annual Reserve Payment is Discounted by Savings Rate	-				<del></del>		
Grit Chamber Piping	GCP	2013	\$50,000	20	2033	90,000	3,523
Grit Pump # 1	GCP 1	2013	\$25,000	20	2033	45,000	1,762
Grit Pump # 2	GCP 2	2013	\$25,000	20	2033	45,000	1,762
Grit Chamber Cyclo Blower # 1	GCB 1	2013	\$25,000	20	2033	45,000	1,800
Grit Chamber Cyclo Blower # 2	GCB 2	2013	\$25,000	20	2033	45,000	1,800
Grit System Slide Gate		2013	\$50,000	20	2033	90,000	3,500
Sludge Processing Mechanical Piping # 1	SPP 1	2013	\$700,000	20	2033	1,264,000	49,482
Belt Press Conveyors	BPC	2013	\$150,000	20	2033	271,000	10,609
Sludge Processing Electrical	SPE İ	2013	\$200,000	20	2033	361,000	14,132
Sludge Processing Instrumentation	SPI 1	2013	\$150,000	20	2033	271,000	10,609
Sludge Processing Mechanical Piping # 2	SPP 2	2013	\$700,000	20	2033	1,264,000	49,482
Sludge Processing Mechanical Piping # 3	SPP 3	2013	\$700,000	20	2033	1,264,000	49,482
Press Polymer Pump (4 EA)		2013	\$125,000	20	2033	226,000	8,847
Sludge Pumping Building Scum Ejector # 1	SPE 1	2013	\$150,000	20	2033	271,000	10,609
Sludge Pumping Building Scum Ejector # 2	SPE 2	2013	\$150,000	20	2033	271,000	10,609
Sludge Processing Building Odor System	SPO 1	2013	\$50,000	20	2033	90,000	3,523
Raw Sewage Pump # 2+ Controls	RSP 2	2013	\$90,000	20	2033	163,000	6,400
Roll Off Truck # 111		2013	\$177,000	23	2036	349,000	11,400
Grit Chamber Screw Conveyor # 1	GCS 1	2013	\$50,000	23	2036	99,000	3,237
Grit Chamber Screw Conveyor # 2	GCS 2	2013	\$50,000	23	2036	99,000	3,237
Secondary Clarifier Drive Rehab (1 Units)		2013	\$80,000	24	2037	163,000	5,039
Electrical		2013	\$300,000	24	2037	610,000	18,857
TOTALS PLANT CEF			\$19,264,000			\$34,598,000	\$1,453,329

					CAMBRAILE		
			AL REPLACI ASTEWATEI				
	1		CAL YEAR 2				-
	umptions:						
Savings Interest Inflation Future Value i			ally			Savings Rate: Inflation Rate:	2.5%
Annual Reserve Payment is Discounted by Savings Rate	s the initation	ractor				Illiation Rate.	3,000
	VD.						
COLLECTION SYSTEM CAPITAL EQUIPMENT FUI Vacuum Truck 87	VAC87	2000	\$200,000	13	2013	294,000	19,400
Fulton Street PS	FPS	1995	\$180,000	19	2014	316,000	13,200
Pump Station Pumps (4)	PSP	1995	\$70,000	19	2014	123,000	5,100
Spaulding Street PS	SPS	1995	\$180,000	19	2014	316,000	13,200
Pump Station Pumps (3)	PSP	1995	\$60,000	19	2014	105,000	4,400
Truck 62 - '04 Chevy 2WD- Plant		2004	\$12,000	10	2014	16,000	1,400
Truck 86 - ' 05 Ford		2004	\$12,000	11	2015	17,000	1,400
National Street PS (Sandy Pond)	NPS	1995	\$350,000	20	2015	632,000	24,700
Truck 136 - 1/2 Ton Chevy w/crane		2004	\$20,000	12	2016	29,000	2,100
Truck 135 - 3/4 Ton Chevy		2004	\$15,000	12	2016	21,000	1,500
Truck 176- Ford F350		2004	\$19,000	12	2016	27,000	2,000
Collection Truck 82 (1 Ton w/ Crane)		2004	\$25,000	13	2017	37,000	2,400
TV Video Truck 112	TVT 1	2002	\$110,000	15	2017	171,000	9,500
Truck 4 - CB Cleaner w/ Clamshell Bucket		2004	\$40,000	14	2018	61,000	3,700
Kubota Tractor		2004	\$15,000	15	2019	23,000	1,300
Street Sweeper		2004	\$90,000	15	2019	140,000	7,800
Vacuum Truck 171	VST 171	2005	\$200,000	15	2020	312,000	17,400
Portable Generator (big one)		2000	\$20,000	20	2020	36,000	1,400
Watson Street PS	WPS	1995	\$350,000	25	2020	733,000	21,500
6" Dewatering Pump (Flood Relief)		2004	\$5,000	20	2024	9,000	400
TOTAL COLLECTION SYSTEM CEF			\$680,000			\$1,253,000	\$153,800

	Schedule D - CAPITAL REPLACEMENT SCHEDULE							
	I	NASHUA W	JITY					
		FIS						
							-	
Assu	mptions:							
Savings Interest Inflation		Savings Rate:	2.5%					
Future Value is	the Inflation	Factor				Inflation Rate:	3.0%	
Annual Reserve Payment is Discounted by Savings Rate								
TOTAL CEF			\$19,944,000			\$35,851,000	\$1,607,13	

## Schedule E - New Project Debt Service

2035

981,250

30,458

1,011,708

#### **Disinfection Facility**

 Debt Type:
 SRF

 Debt Origination:
 2012

 First Payment Year:
 2016

 Cost:
 19,782,762

 Debt Amount:
 19,625,000

 Term (in years):
 20

 Interest Rate:
 3.104%

#### **Dewatering Equipment Replacement**

Debt Type: Bond
Debt Origination: 2013
First Payment Year: 2014
Cost: 5,566,516
Debt Amount: 5,566,516
Term (in years): 20
Interest Rate: 2.864%

#### Storage Tank

 Debt Type:
 Bond

 Debt Origination:
 2013

 First Payment Year:
 2014

 Cost:
 5,764,964

 Debt Amount:
 5,764,964

 Term (in years):
 20

 Interest Rate:
 2.864%

Year	Principal	Interest	Total	Year	Principal	Interest	Total	Year	Principal	Interest	Total
Totals	19,625,000	6,396,180	26,021,180	Totals	5,566,516	1,673,963	7,240,479	Totals	5,764,964	1,733,640	7,498,604
2012	-	-	_	2013	-	-	-	2013	-	-	-
2013	-	-	-	2014	278,326	159,425	437,751	2014	288,248	165,109	453,357
2014	-	-		2015	278,326	151,454	429,780	2015	288,248	156,853	445,101
2015	-	-	-	2016	278,326	143,483	421,808	2016	288,248	148,598	436,846
2016	981,250	609,160	1,590,410	2017	278,326	135,511	413,837	2017	288,248	140,342	428,590
2017	981,250	578,702	1,559,952	2018	278,326	127,540	405,866	2018	288,248	132,087	420,335
2018	981,250	548,244	1,529,494	2019	278,326	119,569	397,895	2019	288,248	123,831	412,080
2019	981,250	517,786	1,499,036	2020	278,326	111,598	389,923	2020	288,248	115,576	403,824
2020	981,250	487,328	1,468,578	2021	278,326	103,626	381,952	2021	288,248	107,321	395,569
2021	981,250	456,870	1,438,120	2022	278,326	95,655	373,981	2022	288,248	99,065	387,313
2022	981,250	426,412	1,407,662	2023	278,326	87,684	366,010	2023	288,248	90,810	379,058
2023	981,250	395,954	1,377,204	2024	278,326	79,713	358,038	2024	288,248	82,554	370,802
2024	981,250	365,496	1,346,746	2025	278,326	71,741	350,067	2025	288,248	74,299	362,547
2025	981,250	335,038	1,316,288	2026	278,326	63,770	342,096	2026	288,248	66,043	354,292
2026	981,250	304,580	1,285,830	2027	278,326	55,799	334,125	2027	288,248	57,788	346,036
2027	981,250	274,122	1,255,372	2028	278,326	47,828	326,153	2028	288,248	49,533	337,781
2028	981,250	243,664	1,224,914	2029	278,326	39,856	318,182	2029	288,248	41,277	329,525
2029	981,250	213,206	1,194,456	2030	278,326	31,885	310,211	2030	288,248	33,022	321,270
2030	981,250	182,748	1,163,998	2031	278,326	23,914	302,240	2031	288,248	24,766	313,014
2031	981,250	152,290	1,133,540	2032	278,326	15,943	294,268	2032	288,248	16,511	304,759
2032	981,250	121,832	1,103,082	2033	278,326	7,971	286,297	2033	288,248	8,255	296,504
2033	981,250	91,374	1,072,624								
2034	981,250	60,916	1,042,166								

#### **Haines Street**

## Net Metering

# Harbor Ave - Disinfect. Facility Proj

Debt Type:	SRF
Debt Origination:	2010
First Payment Year:	2012
Cost:	1,499,658
Debt Amount:	676,025
Term (in years):	10
Interest Rate:	1.845%

Debt Type:	SRF
Debt Origination:	2010
First Payment Year:	2012
Cost:	495,807
Debt Amount:	248,638
Term (in years):	10
Interest Rate	1.845%

Debt Type:	SRF
Debt Origination	2011
First Payment Y	2014
Cost:	5,425,134
Debt Amount:	5,000,000
Term (in years):	20
Interest Rate:	2.864%

Year	Principal	Interest	Total	Year	Principal	Interest	Total
Totals	676,025	68,600	744,625	Totals	248,638	25,231	273,868
2010	-	-	-	2010	-	-	-
2011	-	-	7. <del>-</del>	2011	-	•	-
2012	67,603	12,473	80,075	2012	24,864	4,587	29,451
2013	67,603	11,225	78,828	2013	24,864	4,129	28,992
2014	67,603	9,978	77,581	2014	24,864	3,670	28,534
2015	67,603	8,731	76,333	2015	24,864	3,211	28,075
2016	67,603	7,484	75,086	2016	24,864	2,752	27,616
2017	67,603	6,236	73,839	2017	24,864	2,294	27,157
2018	67,603	4,989	72,592	2018	24,864	1,835	26,699
2019	67,603	3,742	71,344	2019	24,864	1,376	26,240
2020	67,603	2,495	70,097	2020	24,864	917	25,781
2021	67,603	1,247	68,850	2021	24,864	459	25,323

Year	Principal	Interest	Total
Totals	4,750,000	1,360,400	6,110,400
2011	-	-	_
2012	1170	-	8
2013	-	-	-
2014	250,000	136,040	386,040
2015	250,000	128,880	378,880
2016	250,000	121,720	371,720
2017	250,000	114,560	364,560
2018	250,000	107,400	357,400
2019	250,000	100,240	350,240
2020	250,000	93,080	343,080
2021	250,000	85,920	335,920
2022	250,000	78,760	328,760
2023	250,000	71,600	321,600
2024	250,000	64,440	314,440
2025	250,000	57,280	307,280
2026	250,000	50,120	300,120
2027	250,000	42,960	292,960
2028	250,000	35,800	285,800
2029	250,000	28,640	278,640
2030	250,000	21,480	271,480
2031	250,000	14,320	264,320
2032	250,000	7,160	257,160

## **Aeration Blowers**

## Capital Equipment

Debt Type:	Bond
Debt Origination	2013
First Payment Y	2014
Cost:	3,673,459
Debt Amount:	4,160,973
Term (in years):	20
Interest Rate:	2.864%

Debt Type:	Bond
Debt Origination	2015
First Payment Y	2016
Cost:	1,638,000
Debt Amount:	1,638,000
Term (in years):	20
Interest Rate:	2.864%

Year	Principal	Interest	Total	Year	Principal	Interest	Total
Totals	4,160,973	1,251,288	5,412,261	Totals	1,638,000	492,579	2,130,579
2013	-	-		2015	-	-	-
2014	208,049	119,170	327,219	2016	81,900	46,912	128,812
2015	208,049	113,212	321,260	2017	81,900	44,567	126,467
2016	208,049	107,253	315,302	2018	81,900	42,221	124,121
2017	208,049	101,295	309,343	2019	81,900	39,875	121,775
2018	208,049	95,336	303,385	2020	81,900	37,530	119,430
2019	208,049	89,378	297,426	2021	81,900	35,184	117,084
2020	208,049	83,419	291,468	2022	81,900	32,839	114,739
2021	208,049	77,461	285,509	2023	81,900	30,493	112,393
2022	208,049	71,502	279,551	2024	81,900	28,147	110,047
2023	208,049	65,544	273,592	2025	81,900	25,802	107,702
2024	208,049	59,585	267,634	2026	81,900	23,456	105,356
2025	208,049	53,627	261,675	2027	81,900	21,111	103,011
2026	208,049	47,668	255,717	2028	81,900	18,765	100,665
2027	208,049	41,710	249,758	2029	81,900	16,419	98,319
2028	208,049	35,751	243,800	2030	81,900	14,074	95,974
2029	208,049	29,793	237,841	2031	81,900	11,728	93,628
2030	208,049	23,834	231,883	2032	81,900	9,382	91,282
2031	208,049	17,876	225,924	2033	81,900	7,037	88,937
2032	208,049	11,917	219,966	2034	81,900	4,691	86,591
2033	208,049	5,959	214,007	2035	81,900	2,346	84,246

## **Existing Debt Service Schedule**

Description	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Existing Debt Accrued Interest Wet Weather SRF	\$ 1,327,515 125,516	\$1,091,523 \$1,189,361			\$ 641,735 \$1,103,852					
Total - Existing Debt	\$ 1,453,031	\$2,280,884	\$2,199,569	\$1,891,051	\$1,745,587	\$1,702,532	\$1,645,276	\$1,602,987	\$1,560,698	\$1,518,409